

Bifonazole

Catalog No: tcsc2335



Available Sizes

Size: 1g

Size: 5g



Specifications

CAS No:

60628-96-8

Formula:

$C_{22}H_{18}N_2$

Pathway:

Anti-infection

Target:

Fungal

Purity / Grade:

>98%

Solubility:

DMSO : 33.33 mg/mL (107.38 mM; Need ultrasonic)

Alternative Names:

Bay H-4502

Observed Molecular Weight:

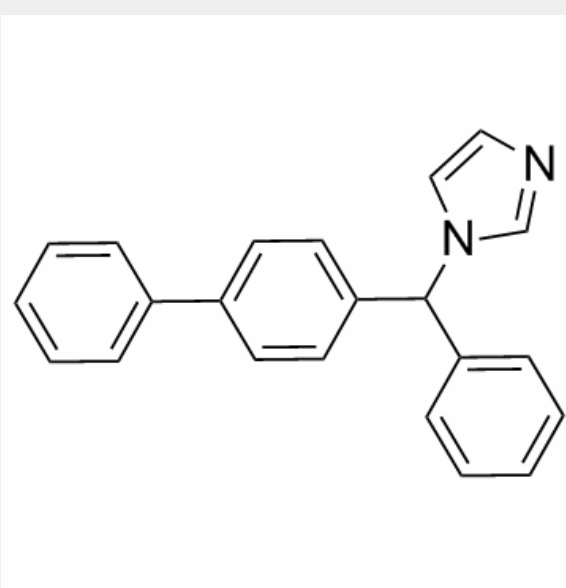
310.39

Product Description

Bifonazole is an imidazole antifungal drug.

Target: Antifungal

Bifonazole, a new broad-spectrum antimycotic, interferes with sterol biosynthesis. In dermatophytes bifonazole additionally inhibits directly HMG-CoA-reductase. bifonazole possesses a sequential mode of action, namely inhibition of cytochrome P450-dependent C14-demethylation of sterols and direct inhibition of HMG-CoA-reductase. In vitro bifonazole shows a strongly pH-dependent efficacy. The uptake kinetics of bifonazole have been measured with different pathogens [1]. Bifonazole additionally leads to a generally decreased rate of sterol biosynthesis as compared to clotrimazole, due to a direct inhibition of microsomal HMG-CoA-reductase. The additional fungicidal effects of bifonazole are considered to originate from a sequential action by inhibition of HMG-CoA-reductase and of cytochrome P450 [2]. bifonazole were affected by choice of medium with Kimmig's agar generally giving the lowest MIC's. Bifonazole MICs were shown to vary with pH (maximal activity at pH 6 . 5) with selected yeasts when tested on Kimmig's agar [3].



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